

NOV 81



LAKEHEAD AMATEUR RADIO CLUB BULLETIN

Founded 1934

Incorporated 1979

High - Q for November 1981

The November Meeting of the LARC will be held on November 12, at the EMO Building at 8:00 PM. There are several important matters up for discussion, including a new repeater in the city and a trip for some lucky member of the executive to a DX location sponsored by the club. (If your not on the executive tough maybe next year you will run for a position).

Last month a new executive was elected and the positions are as follows:

President	Laurie Bridgett	VE3BCD
Vice-President	Tim Pekkonen	VE3HCM
Past President	Bob Mitchell	VE3IDJ
Sec. Treasurer	Jamie Green	VE3KRF
HI-Q Editor	Bill Unger	VE3EFC
Directors	Ian Dorfman	VE3LMN
	Bob Gillman	VE3KRL
	Jim Green	VE3KRD
	John Visser	VE3HTM

Thanks is in order to last years executive who did a great job of running the club. A special thanks to Mike Wolowich VE3HZW who for the last 4 years was the Editor of HI - Q. That is service above and beyond what most people would even consider doing, and the issues of HI - Q are the proof.

CLUB STATION VE53FW

A Repeater for A.L.A.R.C.

The LARC is a community-minded organization whose members are frequently to be found doing good works - especially supporting community service groups and organizations. Lately, the group has helped with the Canada Summer Games Society, The Confederation College Heart Run, the Kiwanis Health Run, the Legion Road Race and the International Soccer Tournament. Each of these events, and events yet to come, such as the Christmas Message Program and the Sibley Ski Race, require the use of a Two-Meter repeater service. The LARC neither owns a repeater, nor has exclusive access to a repeater.

This is an embarrassment. How can the club continue to offer services without the equipment to deliver these services? Why does the club not own a repeater? Is the Lakehead Amateur Radio Club Inc. not the group which provides the community services? Can the club afford to offer services which require equipment that it does not control? Is it reasonable for the LARC to use and abuse equipment without accepting some responsibility for maintenance and repair?

An offer has been brought to your executive which would allow the LARC to obtain a complete repeater, on location, and in operation for a nominal sum. The offer is complete with a money back guarantee, should the machine fail to operate as predicted. Maintenance and repairs would be carried out by these members, under the direction of a repeater chairman. The purchase price for this repeater would easily be met from our current account - without touching present income or the proceeds from the sale of the dish.

A club owned and operated repeater would be invaluable. The repeater would be for club operations, and would free the FM Associations repeater from extensive tie-ups during events such as those mentioned above. Although secondary in nature, the acquisition of a repeater might also provide the opportunity for the odd club project.

The Lakehead University has been approached, and they have responded favourably to the suggestion that the repeater be located at their site. Club approval at the November meeting would mean that this repeater would be operational before Christmas. As some of you are aware, the equipment has been undergoing testing for the last few months, and is working. Although its present site is poor for city coverage, the University site should help immeasurably.

Your executive has studied this proposal at length, and is prepared to recommend it to you. If you have any strong feelings on this matter be prepared to express them clearly and concisely at the meeting on Thursday November 12, in the EMO Building.

Looking forward to seeing you there - Jim Green VE3KRD

HIGH - Q

The most recent addition to Thunder Bays Amateur Radio fraternity is ZENO WAHL, VE3LMX. Zeno is 17 years old and an electronics student at Selkirk High School. He lives in Cloud Bay and is running a Yaesu FT 101 ZD into a homebrew 3 element beam (monobanders on 10 and 15). He is an enthusiastic HF operator and has a good fist on CW.

KIWANIS FAMILY FUN RUN MARATHON

The First Annual Kiwanis Family Fun Marathon was held on Sunday October 11, and was a huge success according to the event organizers.

Everyone was amazed and extremely satisfied with the communication system provided by the LARC.

We were a bit short on help but those who came out were shuffled around and each operator manned two positions, both at the start and finish.

Many thanks to all who turned out to help: Gary, HJS; Bill, XJ; Vlado, KRV; Bob, JAY; Dan, KRO; Ian, LMN; Ron, KRJ; Jim, KRD; Arnold, JAA; Jamie, KRF; and special thanks to Ed, KRP for last minute organizational help.

Thanks again

Bob VE3KRL

HIGH-Q

FOR SALE, TRADE OR SWAP

For sale, a Yaesu FL 2100 B Linear with a spare set of tubes. Very little use on this unit. Asking \$450.00. Call Jim KRD at 767-5267.

For sale, Heathkit Keyer model 1410 already built and complete with manual, also an Archer Straight Key. Call Les at 623-6701.

For sale, Kenwood TR 7200A, 10 watt output, plus power supply and timer, complete with 14 crystals. Call Francis at 577-1616.

For sale, Bearcat 160 crystalless scanner. Range is 32-50 and 144-174 MHz and 421-512 MHz. Capacity of 16 channels, AC only, priority dual scan speeds. Call Tim at 622-2310.

High - Q

Minutes of October 8, 1981 General Meeting

The meeting was called to order at 8:10 PM by president Bob Mitchell (VE3IDJ).

The minutes of the September Meeting were approved as printed in High - Q.

The Treasurer reported a balance of five hundred and thirty-eight dollars (\$538.00).

A letter was received thanking the club for providing communications during the Heart Run.

Elections were held under the watchful supervision of Tom Haavisto (VE3EEW).

The meeting was adjourned at 9:05 PM.

HIGH-Q

Antenna's

SRMXWNXNESNJLPRBZGKL
 SUAANDOVQJXNROTATORS
 XBDDZUWIDQCDYSCRGVRP
 RWCFITATHXSGIPRMPFC
 HFHVNARKVAPLPVOAZJNH
 IFKDYHTEAFZODAVTRDFC
 JQOGLRRIBBRINC GKSTUG
 RMVALTZEOTRORHOMBICA
 OGYGIJVONWEQARAPBOJ
 LKSCHERSDCQCTLLZXGSS
 MOAXRJIBIINLSSYOQIJZ
 ULNANBBBLZORRMPFTPFAE
 EVGGESOREDIEJPYLRWZL
 MEYRWBZIANUDCHPBKZUZ
 YAOOAITTTGDOSATEEGTEC
 SQRRTORDRAIBVUIHZRBO
 BCAVWRQEZYAHQQOXELR
 TPUEPTWPEUYSLSXGNHRI
 WNRJJELOPIDPHSIFSATA
 QVUDZGFGQVSWRLVPFAFLS

Find these hidden words in the above puzzle:

BEVERAGE	COAXIAL	DIPOLE	DIRECTIONAL
FISHBONE	HERTZ	HF	ISOTROPIC
LONGWIRE	PARABOLIC	POLARIZATION	QUAD
RADIALS	RADIATION	RHOMBIC	ROTATORS
STERBA	TOWER	TRAPS	VERTICAL
VHF	VSWR	WINDOM	YAGI
ZEPP			

The above puzzle was from the "brain" of a TRS 80 Computer, Gary Walsh VE3JAF ran the program for me. Once the computer had the words it took about 20 seconds to generate the puzzle! If you have any ideas on games for the magazine let the editor know. Answers next month.

HIGH-Q

I mentioned this TECH TIP to VE3XJ this summer and he suggested putting it in HI-Q (actually, I thought most ops knew about it).

The veritable 6146 has been around a long time, and its lifetime in a rig is directly proportional to how carefully an operator tunes his rig. If you have a tendency to go through them fairly frequently, try buying a 6293 instead. It is a direct replacement, and will cost about 30 % more than a 6146, but its worth it. I have used it in a DX 100, SB401 and Yaesu FT101, you may have to adjust the idling bias current. The 6293 is a radar pulse modulator tube, and was popular as finals in the AM days when the 6146 couldn't be pushed too much.

VE3AVS Dave

Canadian Phone Nets

<u>Name</u>	<u>Freq</u>	<u>Days</u>	<u>UTC</u>	<u>Purpose and Coverage</u>
Aurora	7070	Daily	2330 0230	Traffic Coast to Coast
Comsont	7074	"	1500	Emgcy,Tfc,WX Reports Ontario
Laurentian	3755	"	2345	National Tfc System Province Wide
Ont. Phone	3770	"	0000	National Traffic System Province Wide
Man. Evening	3765	"	0100	Emgcy,Tfc, Weather " "
N.W.O.P.N.	3750	"	0015	Emgcy,Tfc Northwestern Ontario
Trans Canada	14140	Sat Sun	1800	Tfc & Patches Coast to Coast

If unable to contact a specific station that you have traffic for, use a relay station. Often a station will accept your message on HF and relay it on HF or via 2 Meter Repeater to an adjacent province, city or town.

Printed information on the Christmas Messages will be given to all volunteers at the LARC Meeting, Thursday, November 12/81. Help make the Old Folks happy this Christmas.

Senior Citizens Christmas Messages /81

Once again this year the LARC will be accepting meaaages from senior citizens at the various Old Folks Homes to be sent out on HF across the country. Messages will be accepted from people and then relayed to HF stations in Thunder Bay via 2 Meters, for transmission to their destination. Listed below are the volunteers so far and the times and dates that we will be in the Old Folks homes. If you wish to help out give Dan VE3KRO a call at 683 - 8100.

On November 25 at Grandview Lodge at 7:30 pm. Relayed on 2 meters via VE3YQT or 52 Simplex. Volunteers are VE3 AYZ,HJS and EEW.

On November 26 at Dawson Court at 7:30 pm on 2 meters and volunteers are VE3 KRL,KRJ and JAA.

Volunteers for HF Relay stations are VE3 EFC,LMN,HCM,IDJ,AYZ and JAR

Messages are being accepted for transmission for cities within Canada and USA. Messages will be accepted for the following Northwestern Ontario towns: Atikokan,Dryden,Kenora,Sioux Narrows, Fort Francis,Marathon,Sault Ste. Marie, Sudbury and South Porcupine, and any city in Southern Ontario.

LARC

A Book Review

Care and Feeding of Power Grid Tubes by Varian, Eimac Division

This book contains 156 pages on virtually all aspects of high power tubes.

The first three sections consist of an introduction, an explanation of power grid tubes and electrical design considerations. If you are considering building a linear amplifier from scratch this is an excellent book to help you. Or if you just want to determine how efficient your linear is working this will tell you how with a computer (paper slide rule) how well your equipment is doing. This is not a how to build your own book but rather an explanation of how the circuit should work.

The fourth section describes the linear amplifier and single sideband service. This chapter describes how a tube is biased so that it is linear, how to design a linear amplifier and finally the testing and adjustment of a linear amplifier by using the two - tone test.

The fifth section is on neutralization, how it is done and the effects if it is not done properly.

The final section is called "Operating Conditions for Various Applications" and covers such things as adjustment of loading and excitation voltages, harmonics and shielding to name just a few.

One of the most interesting parts of this section is on tube life. One statement made is "Theoretically a 3 % increase in filament voltage will result in a 20 % increase in peak emission and a 50 % decrease in life due to carbon loss. For a small decrease in voltage and peak emission tube life can be increased by a substantial percentage" When was the last time you checked the filament voltage on your linear?

Basically this book was written for the Commercial HF and VHF user but any Ham that has a linear would profit from certain sections. A short increase in tube life alone would probably pay for the cost of this book.

The cost of this book is \$ 6.95 and can be obtained by writing to

Varian Associates of Canada Ltd.
45 River Drive
GEORGETOWN, Ontario

VE3EFC

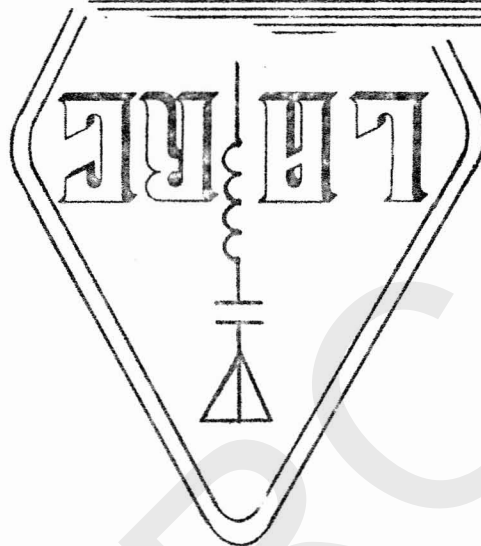
Senior Citizens Station VE3LMB

Senior citizens station VE3LMB operates on schedule every Tuesday from 1330 to 1530 EST from Grandview Lodge. All Senior Citizens and Radio Amateurs are invited to visit and participate in the program.

Northwestern Ontario Phone Net

The NWOPN is again active after a summer lay off. This net meets Daily on 3750 kHz at 0015 UTC (1915 EST). It covers an area from Manitoba to Southern Ontario and has many check ins from various points in Northern Ontario.

LAKEHEAD AMATEUR RADIO CLUB



HI-Q BULLETIN

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THUNDER BAY 'P' ONT.
CANADA
P7B:5G1



TO

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